

# Intel® Server Board S5500BC, Intel® Server Chassis SC5650, Intel® Server System SR1630BC, Spares / Parts List & Configuration Guide

A reference guide to assist customers in ordering the necessary components to configure the Intel® Server board S5500BC, Intel® Server chassis SC5650 and Intel® server system SR1630BC



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~ Subject to Change ~

# Change History:

12/18/08: Production unit order information added. Deleted pre-production information

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## Production Configurations

### Production Board

This section contains information needed to order Production Intel® Server Board S5500BC, Intel Server Chassis SC5650 and Intel Server System SR1630BC

**1. The production Intel® boxed Server Board S5500BC contain the following:**

- One baseboard with Common Enabling Kit (CEK) spring clips
- ATX I/O shield and label
- Quick Start User's Guide
- Cables: Serial B (COM2) and 4 SATA cables
- Resource CD-ROM with utilities, drivers, documentation and technical information
- ISMS 3.x DVD
- Compatible with Intel® Xeon® processor 5500 series

**2. The production OEM 10-packs of Intel® Server Boards contain the following:**

- Each baseboard with Common Enabling Kit (CEK) spring clips
- Compatible with Intel® Xeon® processor 5500 series

### Production chassis

**1. The production Intel® Server Chassis SC5650DP SKU includes:**

- Non-redundant 600W PFC power supply
- Three non-redundant cooling fan
- Support for up to six tool-free non hot-swap 3.5" SATA hard drives. Upgradeable to hot swap SAS/SATA 6-drive bay.

Note: Check the Power budget spreadsheet for supportable hard drive, memory and PCI configurations.

- Quick Start User's Guide
- Cables (one each):
  - Front Panel Cable (baseboard header to front panel)
  - USB Cable (USB header to chassis front panel)
  - AC power cord is included in SC5650DPNA
- Chassis intrusion switch assembly
- Five Bumpers for installing Intel® Server Board SC5500BC

- The chassis is designed to work with boxed Intel® Xeon® processor 5500 series using Intel® Thermal Solution STS100C (Combo) or STS100A (Active).

## 2. The production Intel® Server Chassis SC5650BRP SKU includes:

- Redundant (1+0) 600W high efficiency PFC power supply with dual line cord support (full redundancy requires additional 600W module purchased separately)
- Three non-redundant cooling fan
- Support for up to six tool-free non hot-swap 3.5" SATA hard drives. Upgradeable to hot swap SAS/SATA 6-drive bay.  
Note: Check the Power budget spreadsheet for supportable hard drive, memory and PCI configurations.
- Quick Start User's Guide
- Cables (one each):
  - Front Panel Cable (baseboard header to front panel)
  - USB Cable (USB header to chassis front panel)
  - AC power cord is included in SC5650BRPNA
- Chassis intrusion switch assembly
- Five Bumpers for installing Intel® Server Board SC5500BC
- The chassis is designed to work with boxed Intel® Xeon® processor 5500 series using Intel® Thermal Solution BXSTS100C (Combo) or BXSTS100A (Active).

## 3. Common accessories include:

- Hot Swap Drive Bays:
  - AXX6DRV3GEXP: Expander-based 6-drive bay that supports SAS/SATA drives. Requires two free SAS ports from the SAS personality module or SAS RAID card.
  - AXX6DRV3GR: 6-drive bay that supports SAS/SATA drives. Requires six free SAS or SATA ports. SAS hard drive support requires SAS connectors from a SAS personality module or SAS RAID Card.
- APPT600WHPSU: Additional 600W power supply module- required for full redundancy for SC5650BRP only.
- APPTHSDBKIT: Cooling and mounting kit required for 6-drive hot-swap backplanes installed in the SC5650 chassis family. This Kit should be used with AXX6DRV3GR.
- APP3HSDBKIT: Cooling and mounting kit required for 6-drive hot-swap backplanes installed in the SC5650 chassis family. This Kit should be used with AXX6DRV3GEXP.
- AXXRAKSW5: Intel® RAID Activation Key AXXRAKSW5 to enable Intel Embedded RAID technology for SAS and/or SATA Software RAID 5 on S5500BC board and SR1630BC system.

## Production Integrated 1U System



### 1. The production Intel® integrated Server System SR1630BC SKU includes

- One pre-installed production Intel® Server Board S5500BC


- Non redundant high efficiency 400W PFC power supply
- Two non-redundant cooling fan
- Support for up to two non hot-swap 3.5" SATA hard drives.
- One riser card
- Slim-line CD-ROM bay
- Basic rail kit
- Cables :
  - Front Panel Cable (baseboard header to front panel)
  - USB Cable (USB header to chassis front panel)
  - Two SATA cables
  - AC power cord is included in SR1630BCNA
- The system is designed to work with boxed Intel® Xeon® processor 5500 series using Intel® Thermal Solution STS100P (passive)

## A. Production Order Codes




### Production Board

Picture	Product Code	MM #	UPC	MOQ	Description
	S5500BC	900774	00735858208109	5	Boxed Intel Server Board S5500BC. (Includes I/O shield, cables, resource CD and ISMS DVD)
	BB5500BC	900775	00735858208116	10	Bulk pack of the Intel Server Board S5500BC


### Production Board Accessories

Picture	Product Code	MM #	UPC	MOQ	Description
	AXXTIO	901685	00735858207683	50	50 Pack: I/O Shield



Production Chassis



Picture	Product Code	MM #	UPC	MOQ	Description
	SC5650DP	900338	00735858207393	1	<p>Intel Server Chassis SC5650DP with 600W fixed PSU, 3 fixed chassis fans with ducting, rackable with optional rack kit, supports up to 6 fixed drives, upgradeable to 6 Hot-Swap drives (SAS or SATA). <b>Check the Power budget spreadsheet for supportable hard drive, memory and PCI configurations.</b> Supports S5520HC, S5500HCV, S5500BC. Supports up to 95W processor. No power cord or heat sinks included.</p>
	SC5650DPNA	900453	00735858207614	1	<p>Same as Intel Server Chassis SC5650DP with North American power cord. No heat sinks included.</p>
	SC5650BRP	900340	00735858207409	1	<p>Intel Server Chassis SC5650BRP Base Redundant Power with (1+0) 600W power supply, 3 fixed chassis fans with ducting, Rackable with optional rack kit. Supports up to 6 fixed drives, upgradeable to 6 Hot-Swap drives (SAS or SATA). Supports Intel Server Board S5520HC, S5500HCV, S5500BC. Supports up to 95W processor. No power cord or heat sinks included.</p>











	SC5650BRPNA	900452	00735858207621	1	Same as Intel Server Chassis SC5650BRP with North American power cord. No heat sinks included.
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Production Chassis Spares and Accessories

Picture	Product Code	MM #	UPC	MOQ	Description
	AXX6DRV3GEXP	877235	00735858180283	1	6-drive hot-swap, expander SATA/SAS backplane assembly cage kit for Intel Server Chassis SC5600/SC5650. Requires 2 SAS ports from SAS personality module or RAID card and is compatible with SAS or SATA 3.5" hard drives. Includes: backplane board, 6 drive carriers, 2 Data cables, 6-drive bay, IPMB cable, common installation guide, SATA/SAS configuration label.
	AXX6DRV3GR	900405	00735858207638	1	6-drive hot-swap non-expanded SATA/SAS backplane assembly cage kit for Intel Server Chassis SC5600 / SC5650 family. Requires 6 SAS ports from RAID card for SAS (or SATA) 3.5" hard drive support or 6 SATA ports from baseboard or RAID card for SATA 3.5" hard drive support. Includes: Backplane board, 6 drive carriers, 6 data cables, 6-drive bay, IPMB cable, SES cable and SGPIO cable, common installation guide, SATA/SAS configuration label.



	AXXRMM3	900961	00735858206570	1	Intel Remote Management Module 3 for Intel Server Board S5520HC, S5500HCV, S5500BC, and Intel workstation board S5520SC.
Coming Soon	AXXCMA3U7U	862119	00735858168533	1	Universal 3U though 7U Rack Mode Cable Management Arm (CMA). Requires ARIGRACK.
Coming Soon	ARIGRACK	885459	00735858164603	1	Pedestal to rack conversion kit for Intel® Server Chassis SC5600. Includes: hinge cover; rack handles, intrusion switch jumper, new rail kit assembly, rack hardware kit, icon label, installation guide
Coming Soon	APPTHSDBKIT	901181	00735858207676	1	Hot-swap drive cooling and mounting Kit for Intel Server Chassis SC5650, Includes 1 fan holder and 2 Hot-swap cage brackets. <b>This mounting kit is required when using 6-bay Hot-swap Hard Disk Cage AXX6DRV3GR in SC5650 Chassis</b>
Coming Soon	APP3HSDBKIT	882456	00735858177450	1	Hot-swap adapter bracket for use with all Intel Server Chassis SC5299-E, SC5295 (except SC5295UP) and SC5650 chassis. <b>This mounting kit is required when using 6-bay Hot-swap Hard Disk Cage AXX6DRV3GEXP in SC5650 Chassis</b>
Coming Soon	APP3RACKIT	882457	00735858177375	1	Rack conversion kit for Intel Server Chassis SC5650 family. Includes rack rails and hardware for rack installation
	APP3STDBEZEL	871862	00735858177474	1	Spare bezel with door for Intel Server Chassis SC5650 family.
Coming Soon	APPT600WHPSU	900984	00735858207324	1	2 <sup>nd</sup> Redundant 600W PSU for Intel Server Chassis SC5650BRP. Optional, second module is required to enable full, hot-swap power redundancy.

	FXXPPT600WPSU	901184	00735858207317	1	Spare 600W PSU for Intel Server Chassis SC5650DP
Coming Soon	FPPTBRPCAGE	901183	00735858207331	1	Spare Intel Server Chassis SC5650BRP redundant power supply cage. Also used to upgrade Intel Server Chassis SC5650DP/WS to redundant power configuration. Requires 1 (or 2) APPT600WHPSU to complete upgrade. Includes power distribution board and filler (for empty module when only 1 module installed). See Technical Product Specifications for instructions.
	FPPTFANKIT4W	901182	00735858207713	1	4 wire fan kit for Intel Server Chassis SC5650. Includes (1) 4 wire PCI Fan(120mm) & (2) 4 wire rear fan(120mm) & (1) 4 wire HDD fan(90mm).
Coming Soon	FPPTPMKIT	901659	00735858207720	1	Chassis Preventative Maintenance Kit for Intel Server Chassis SC5650 family. Includes (2) Hard Drive Bay Lockers with Screws and Spring, (1) Air Duct, (1) Intrusion Switch Assembly, (1) USB Cable, (1) Rear 120mm Fixed Fan Holder with Screws, (1) 92mm Fan Holder with Screws, (1) Full-length PCI Card Guide, (4) Rivets for front 120mm Fixed Fan, (1) Adapter Plate with Screws for Fixed Power Supply, (1) Fixed Power supply tool-less locker, (4) Chassis Feet, , (1) Fixed HDD Fan Plate, (1) Supporting kit for upgrading to redundant power supply on SC5650DP/WS
	FXXPPTFPBRD	901360	00735858207737	1	Spare front panel board for Intel Server Chassis SC5650

	FXXIPMBCBL	878135	00735858180085	10	Spare IPMB cables
	FXXSESCBL	877945	00735858180092	10	Spare SES cables
	FXXSGPIOCBL	877944	00735858180108	10	Spare SGPIO cables
Coming Soon	AXXRJ45DB92	881944	00735858155212	1	Contains two serial cable converter dongles (RJ45 to DB9) one for DSD and one for DCD (modem). The kit also includes one serial ribbon cable for cabling 2nd serial port from the baseboard. Note this ribbon cable is not used with the Intel Server Chassis SC5600/SC5650
	FXX6DRV3GRBRD	901337	00735858206396	1	Spare board for AXX6DRV3GR (6 drive backplane without an expander).
	FXX6DRV3GEXPBRD	879632	00735858180948	1	Spare board for AXX6DRV3GEXP (6 drive backplane with an expander).

	FXX10DVCARBLK	880265	00735858181938	10	Hot swap drive carrier spare with black baffle.
	FPWRCABLENA	879287	00735858180740	1	Spare North America Power cable for Intel Server Chassis SC5600, SC5650 family



Production System SR1630BC


Picture	Product Code	MM #	UPC	MOQ	Description
	SR1630BC	900773	00735858208123	1	Intel integrated 1U Server System SR1630BC (includes baseboard, 1 riser card, 2 non-redundant chassis fans, fixed HE 400W power supply, 2x3.5" fixed hard drive carriers. No processors, DDR3 memory, hard drives and heat sinks included)
	SR1630BCNA	901893	00735858208161	1	Intel integrated 1U Server System SR1630BC with NA power cord (includes baseboard, 1 riser card, 2 non-redundant chassis fans, fixed HE 400W power supply, 2x3.5" fixed hard drive carriers. No processors, DDR3 memory, hard drives and heat sinks included)

Production System SR1630BC Accessory


Picture	Product Code	MM #	UPC	MOQ	Description
Coming Soon	AHJBEZBLACK	888348	00735858192163	1	SR1630BC 1U Bezel (Black) for fixed SKU
Coming Soon	AXXBASICRAIL	881096	00735858184748	1	Basic slide rail kit (does not support Cable Management Arm)
Coming Soon	AXXBRACKETS	863262	00735858168618	1	Fixed mount bracket kit
Coming Soon	AXXHERAIL	881328	00735858164948	1	Tool-less, full extension sliding rail kit.  NOTE: Best used with racks featuring square or round mounting holes
Coming Soon	AXXSATADVROM	893637	00735858197663	1	SATA Slim-line DVD
Coming Soon	AXXSATADVDRWROM	898051	00735858197670	1	SATA Slim-line DVD re-writeable
Coming Soon	FPWRCABLENA	879287	00735858181129	1	North American power cable

Production System SR1630BC Spares




Picture	Product Code	MM #	UPC	MOQ	Description
	AHJTPCIERISER	900772	00735858208130	5	HJ-T (1U) Low Profile half-length PCIe2 x8 riser
	FHJT400WPS	899410	00735858203616	1	Spare 400W, CSCI 08-09 power supply for SR1630

	FHJTBLOWER	900770	00735858208154	2	SR1630 blower spare kit.
Coming Soon	FHJTFIXPMKIT	900771	00735858208147	1	SR1630BC Fixed drive maintenance kit Kit includes front panel assembly, CD-ROM brackets, air duct, various cables, and screws



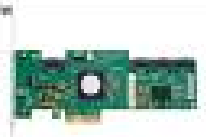
Production RAID Accessories (not including BBU)

Picture	Product Code	MM #	UPC	MOQ	Description
	AXXRAKSW5	878958	00735858181860	5	Intel® RAID Activation Key AXXRAKSW5 enables SAS and/or SATA Host-based RAID 5

Production RAID Controller

Picture	Product Code	MM #	UPC	MOQ	Description
	SRCSASPH16I	896897	00735858201339	5	Intel® RAID Controller SRCASPH16I - PCIe x8, 16P SAS RAID Controller, 256MB 667MHz memory embedded.  Note: Compatible in SC5650DP/BRP chassis
	SRCSASBB8I	896943	00735858201346	5	Intel® RAID Controller SRCASBB8I - PCIe x8, 8P SAS RAID Controller, 256MB embedded memory, MD2 Low Profile, half length form factor. Compatible in both S5650DP/BRP and SR1630BC.  Note: To use in SR1630BC system and SC5650 battery (BBU) needs to be removed due to thermal limitation
	SRCSASLS4I	896952	00735858201353	5	Intel® RAID Controller SRCASLS4I - PCIe x8, 4P SAS RAID Controller, 128MB embedded memory, MD2 Low Profile, half length form factor. Compatible in both S5650DP/BRP and SR1630BC.  Note: To use in SR1630BC system and SC5650 battery (BBU) needs to be removed due to thermal limitation



	SASMF8I	896960	00735858201360	5	Intel® RAID Controller SASMF8I - PCIe x4, 8P SAS Controller with Intel Embedded Server RAID technology, Low Profile, half length form factor. Compatible in both S5650DP/BRP and SR1630BC.
	SASUC8I	900176	00735858205115	5	Intel® RAID Controller SASUC8I - PCIe x8, 8P SAS Controller with entry-level HW RAID 0/1/1E/10E, low profile, half-length MD2 compliant form factor. Compatible in both S5650DP/BRP and SR1630BC.
	SASWT4I	900267	00735858205108	5	Intel® RAID Controller SASWT4I - PCIe x4, 4P SAS Controller with entry-level HW RAID 0/1/1E/10E, low profile, half-length MD2 compliant form factor. Compatible in both S5650DP/BRP and SR1630BC.

#### Intel® System Management Software – (Upgrade SKUs)

**The following Intel® System Management Software Upgrade SKUs are offered. Each SKU includes a Certificate of Authenticity (COA) that contains a product key for user to enter to upgrade:**

Upgrades available to Microsoft\* System Center Essentials 2007

- Small Network Edition

This upgrade gives the user the ability to manage up to 5 Windows-based servers OSEs and 15 Windows-based client OSEs.

- Standard Edition

This upgrade gives the user the ability to manage up to 10 Windows-based servers OSEs and 50 Windows-based client OSEs.

- Upgrade to add 1 Server Management license

This upgrade gives the user the ability to manage 1 additional Windows-based server OSE.

- Upgrade to add 5 Server Management licenses

This upgrade gives the user the ability to manage 5 additional Windows-based servers OSEs.




- Upgrade to add 5 Client Management licenses





This upgrade gives the user the ability to manage 5 additional Windows-based client OSEs.

- Upgrade to add 20 Client Management licenses

This upgrade gives the user the ability to manage 20 additional Windows-based client OSEs.

Intel® System Management Software – Upgrade Order Codes:

Product Code	UPC	MM	Description	Picture	MOQ
SMS2SSE2SNE	7 35858 19670 3	893177	Upgrade from Single Server Edition to Small Network Edition  <b>Not included:</b> Software CDs are not included with upgrade. User must already have a valid copy of Microsoft* System Center Essentials 2007 to upgrade.		1
SMS2SNE2STD	7 35858 19671 0	893221	Upgrade from Small Network Edition to Standard Edition  <b>Not included:</b> Software CDs are not included with upgrade. User must already have a valid copy of Microsoft* System Center Essentials 2007 to upgrade.		1
SMS2SSE2STD	7 35858 19672 7	893170	Upgrade from Single Server Edition to Standard Edition  <b>Not included:</b> Software CDs are not included with upgrade. User must already have a valid copy of Microsoft* System Center Essentials 2007 to upgrade.		1

SMS2CAL1S	7 35858 19675 8	893217	<p>Microsoft® System Center Essentials 2007 Server Management License (1 Pack)</p> <p><b>Not included:</b> Software CDs are not included with upgrade. User must already have a valid copy of Microsoft* System Center Essentials 2007 to upgrade.</p>		1
SMS2CAL5S	7 35858 19676 5	893218	<p>Microsoft® System Center Essentials 2007 Server Management License (5 Pack)</p> <p><b>Not included:</b> Software CDs are not included with upgrade. User must already have a valid copy of Microsoft* System Center Essentials 2007 to upgrade.</p>		1
SMS2CAL5C	7 35858 19673 4	893220	<p>Microsoft® System Center Essentials 2007 Client Management License (5 Pack)</p> <p><b>Not included:</b> Software CDs are not included with upgrade. User must already have a valid copy of Microsoft* System Center Essentials 2007 to upgrade.</p>		1
SMS2CAL20C	7 35858 19674 1	893219	<p>Microsoft® System Center Essentials 2007 Client Management License (20 Pack)</p> <p><b>Not included:</b> Software CDs are not included with upgrade. User must already have a valid copy of Microsoft* System Center Essentials 2007 to upgrade.</p>		1

Production Intel Xeon Processor 5500 Series

Processor Name	Boxed Product Code	Boxed Product MM#	Clock Speed	QPI Speed1	L3 Cache	Max Memory Speed	# of Cores / Threads	HT2	Turbo Boost3	Power	UPC Code (Boxed Product Only)
Intel® Xeon® Processor X5570	BX80602X5570	901025	2.93 GHz	6.4 GT/s	8MB	1333 MHz	4 / 8	ü	ü	95W	7 35858 20569 6
Intel® Xeon® Processor X5560	BX80602X5560	901026	2.80 GHz	6.4 GT/s	8MB	1333 MHz	4 / 8	ü	ü	95W	7 35858 20570 2
Intel® Xeon® Processor X5550	BX80602X5550	901027	2.66 GHz	6.4 GT/s	8MB	1333 MHz	4 / 8	ü	ü	95W	7 35858 20571 9
Intel® Xeon® Processor E5540	BX80602E5540	901028	2.53 GHz	5.86 GT/s	8MB	1066 MHz	4 / 8	ü	ü	80W	7 35858 20572 6
Intel® Xeon® Processor E5530	BX80602E5530	901029	2.40 GHz	5.86 GT/s	8MB	1066 MHz	4 / 8	ü	ü	80W	7 35858 20573 3
Intel® Xeon® Processor E5520	BX80602E5520	901030	2.26 GHz	5.86 GT/s	8MB	1066 MHz	4 / 8	ü	ü	80W	7 35858 20574 0
Intel® Xeon® Processor L5520	BX80602L5520	901033	2.26 GHz	5.86 GT/s	8MB	1066 MHz	4 / 8	ü	ü	60W	7 35858 20575 7
Intel® Xeon® Processor E5506	BX80602E5506	901031	2.13 GHz	4.8 GT/s	4MB	800 MHz	4 / 4			80W	7 35858 20576 4
Intel® Xeon® Processor L5506	BX80602L5506	901023	2.13 GHz	4.8 GT/s	4MB	800 MHz	4 / 4			60W	7 35858 20579 5
Intel® Xeon® Processor E5504	BX80602E5504	901032	2.00 GHz	4.8 GT/s	4MB	800 MHz	4 / 4			80W	7 35858 20577 1
Intel® Xeon® Processor E5502	BX80602E5502	901022	1.86 GHz	4.8 GT/s	4MB	800 MHz	2 / 2			80W	7 35858 20578 8

Production Intel Thermal Solution STS100 Series

Product name	Description	Recommended usage*	Maximum CPU TDP	Boxed Product Code	MM#	UPC Code
Intel® Thermal Solution STS100C	Passive/Active Combination Heat Sink with Removable Fan	<p><b>With fan installed:</b></p> <ul style="list-style-type: none"> <li>- Pedestal chassis that provide adequate ventilation and correct temperature air to heat sink</li> </ul> <p><b>With fan removed:</b></p> <ul style="list-style-type: none"> <li>- Pedestal chassis with ducted airflow to heat sink</li> <li>- 2U or larger rack chassis* with ducted airflow to heat sink</li> </ul>	130W	BXSTS100C	900491	7 35858 20515 3
Intel® Thermal Solution STS100A	Active Heat Sink with Fixed Fan	Pedestal chassis that provide adequate ventilation and correct temperature air to heat sink	80W	BXSTS100A	900490	7 35858 20513 9
Intel® Thermal Solution STS100P	25.5mm Tall Passive Heat Sink	1U or 2U rack and blade chassis with ducted airflow to heat sink	95W	BXSTS100P	900492	7 35858 20514 6

MOQ = Minimum Order Quantity.

